

CLAIMS

What is claimed:

SUB A1 1. ~~A disk for a hard disk drive, comprising:~~

2 a disk having at least one side with a plurality of
3 tracks, each of said tracks having a first burst in a first servo
4 field and a second burst in a second servo field, said first burst
5 providing a first portion of track position information and said
6 second burst providing a second portion of track position
7 information, said first and second portions in combination
8 providing a position of a corresponding track.

1 2. The disk as recited in claim 1, wherein said first burst
2 and said second bursts are located on consecutive sectors of each
3 track.

1 3. The disk as recited in claim 2, wherein each track
2 further comprises a third burst that provides a sector sequence
3 number that identifies the sequence position of each of said
4 consecutive sectors.

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1 4. The disk as recited in claim 1, wherein each track
2 further comprises a third burst that provides a third portion of
3 track position information, said first, second and third portions
4 in combination providing a position of a corresponding track.

1 5. The disk as recited in claim 4, wherein said first, said
2 second and said third bursts are located on consecutive sectors of
3 each track.

1 6. The disk as recited in claim 5, wherein each track
2 further comprises a fourth burst that provides a sector sequence
3 number that identifies the sequence position of each of said
4 consecutive sectors; said first, second and third portions and
5 their corresponding sequence numbers in combination providing a
6 position of a corresponding track.

1 7. The disk as recited in claim 1, wherein each track
2 further comprises a third burst that provides a quadrant position
3 of said disk.

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1 8. The disk as recited in claim 1, wherein said disk has a
2 second side with a second plurality of tracks, wherein each track
3 on each side of said disk includes said first burst and said
4 second burst.

1 9. The disk as recited in claim 2, wherein each track on
2 each side of said disk further comprises a third burst and a
3 fourth burst, said third and fourth bursts providing a first
4 portion and a second portion of disk side position information
5 respectively, said first and second portions of disk side position
6 information in combination providing a position of a side of the
7 disk.

1 10. A hard disk drive, comprising:
2 a housing;
3 a spin motor mounted to said housing;
4 an actuator arm mounted to said spin motor;
5 a disk attached to said spin motor, said disk having at
6 least one side with a plurality of tracks, each of said tracks
7 having a first burst in a first field and a second burst in a

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8 second field, said first burst providing a first portion of track
9 position information and said second burst providing a second
10 portion of track position information, said first and second
11 portions in combination providing a position of a corresponding
12 track; and

13 a read/write head mounted to said actuator arm for
14 reading said at least one side of said disk.

1 11. The hard disk drive as recited in claim 1, wherein said
2 first burst and said second bursts are located on consecutive
3 sectors of each track.

1 12. The hard disk drive as recited in claim 11, wherein each
2 track further comprises a third burst that provides a sector
3 sequence number that identifies the sequence position of each of
4 said consecutive sectors.

1 13. The hard disk drive as recited in claim 10, wherein each
2 track further comprises a third burst that provides a third
3 portion of track position information, said first, second and
4 third portions in combination providing a position of a
5 corresponding track.

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1 14. The hard disk drive as recited in claim 13, wherein said
2 first, said second and said third bursts are located on
3 consecutive sectors of each track.

1 15. The hard disk drive as recited in claim 14, wherein each
2 track further comprises a fourth burst that provides a sector
3 sequence number that identifies the sequence position of each of
4 said consecutive sectors; said first, second and third portions
5 and their corresponding sequence numbers in combination providing
6 a position of a corresponding track.

1 16. The hard disk drive as recited in claim 10, wherein said
2 disk further comprises a second side with a second plurality of
3 tracks, wherein each track on each side of said disk includes said
4 first burst and said burst, each track on each side of said disk
5 further including a third burst and a fourth burst, said third and
6 fourth bursts providing a first portion and a second portion of
7 disk side position information respectively, said first and second
8 portions of disk side position information in combination
9 providing a position of a side of the disk; and

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10 wherein said hard disk drive further comprises a second
11 read/write head mounted to said actuator arm for reading said
12 second side of said disk.

1 17. A method for providing servo information on a disk in a
2 hard disk drive, comprising the steps of:

3 a) providing a disk having a at least one side with a
4 plurality of tracks, each of said tracks having a first in a first
5 servo field and a second burst in a second servo field, said first
6 burst providing a first portion of track position information and
7 said second burst providing a second portion of track position
8 information;

9 b) reading said first burst;

10 c) reading said second burst; and

11 d) combining said first and said second portions to
12 provide a position of a corresponding track.

1 18. The method as recited in claim 17, wherein step a) further
2 comprises the step of: providing a third burst that provides a sector
3 sequence number that identifies the sequence position of each of said
4 consecutive sectors;

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5 wherein the method further comprises the steps of: reading
6 said third burst, after step c); and

7 the step of: e) combining said first, and second portions
8 and their corresponding sequence numbers to provide a position of a
9 corresponding track.

1 19. The method as recited in claim 17, wherein step a)
2 further comprises the step of providing a third burst that
3 provides a quadrant position of said disk.

1 20. The method as recited in claim 17, wherein in step a),
2 said disk has a second side with a second plurality of tracks,
3 wherein each track on each side of said disk includes said first
4 burst and said second burst; and wherein each track on each side
5 of said disk further comprises a third burst and a fourth burst,
6 said third and fourth bursts providing a first portion and a
7 second portion of disk side position information respectively;
8 wherein said method further comprises the step of:

9 e) reading said first and second portions of disk side
10 position information; and

11 f) combining said first and second portions to provide
12 ~~a position of a side of the disk.~~

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